

Y.I. TYPE

(15)

PROFILED DECKS

LITHGOWS 2<sup>TH</sup>

No 957-8-9

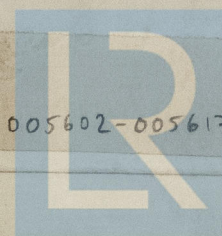
-60-61



n/n. "ACHED"

| <u>Yard No.</u> | <u>Name</u>                                 | <u>First Entry Rpt.No.</u> |
|-----------------|---|----------------------------|
| 957             | "EMPIRE RIDLEY"<br><del>EMPIRE RIDLEY</del> | 21638                      |
| 958             | "EMPIRE BAFFIN"                             | 21587                      |
| 959             | "EMPIRE HOWARD"                             | 21645                      |
| 960             | "EMPIRE RANGER"                             | 21746                      |
| 961             | "EMPIRE ZEAL"                               | 21769                      |

DS 287



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005602-005617-0238

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005602-005619-0238

LITHGOWS LTD

Nº 959

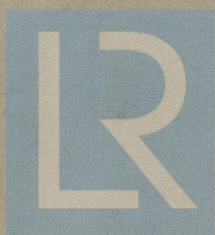
YI TYPE

EMPIRE HOWARD

MIDSHIP SECTION

AS BUILT

W241-0011



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S.S. N° 958. S.S. "EMPIRE BAFFIN."  
S.S. N° 959. S.S. "EMPIRE HOWARD."

SECRET & CONFIDENTIAL  
EMERGENCY PROGRAMME.

STEAM CARGO VESSEL "Y.I" TYPE.

MIDSHIP SECTION.

SCALE  $\frac{1}{2}'' = 1'-0''$ .

TO CLASS 100 A1 WITH FREEBOARD AT LLOYDS SPECIAL SURVEY.

DIMENSIONS: 425'0" B.P. ON L.W.L. x 56'0" M<sup>2</sup> - 56'3" EXT. x 27'9" M<sup>4</sup> TO 2<sup>ND</sup> DK. 36'10" M<sup>4</sup> TO UPPER DK.

LLOYDS NUMERALS

FIRST LONGITUDINAL NUMBER L.N.D. = 425.0 x 36.75 = 15193.75  
SECOND LONGITUDINAL NUMBER L.N.D. = 425.0 x (36.0 + 35.75) = 30353.75  
7/D TO UPPER DECK = 425.0 x 36.75 = 11.55  
D MOULDED DEPTH = 27.75 + 0.0 = 32.75  
d = 27.75 - 3.7/4 = 3.0 FOR HIGHER BKT = 23.9  
d AT HALF LENGTH FORWARD = 26.39

EQUIPMENT NUMBER

SECOND LONGITUDINAL NUMBER = 425.0 x (36.0 + 36.75) = 39418.75  
MIDSHIP ACCOMMODATION & CASINO = 72.25 x 8.0 x 1/2 = 289.00  
SALOON ACCOMMODATION = 30.3 x 8.0 x 1/2 = 120.00  
EQUIPMENT NUMBER = 39027.75

EQUIPMENT

2 BOWER ANCHORS 68 CWT. EACH STOCKLESS

1 STEAM ANCHOR 19 CWT. EX-STOCK

RULE 270 PATRONS 225 FATHOMS 2 3/4" STUD CHAIN CABLE 600 CWT.

20 FATHOMS 1 7/8" STEAM CHAIN OR 5 FLEXIBLE STEEL WIRE 6 x 12

120 FATHOMS 4 3/4" SPECIAL FLEXIBLE STEEL WIRE 6 x 24

2 HAWSEYS 30 FATHOMS 8 HEMP OR 2 3/4" FLEXIBLE STEEL WIRE 6 x 12

2 WARRS 30 FATHOMS 7 HEMP OR 2 3/4" FLEXIBLE STEEL WIRE 6 x 12

IN THE EVENT OF SCARCITY OF LABOUR  
ELECTRIC WELDING WOULD BE ADOPTED WHERE  
EVER PRACTICABLE

RIVETING NOTE

RIVETS IN FRAMES TO FLOORS AND CROSS-TE PLATES IN AFT PEAK SPACED 5 DIAM. APART C/T O/C.  
RIVETS IN FRAMES TO SHELL AT PLAT OF DOUBLE BOTTOM FORD HALF LENGTH FORD SPACED 5 1/2 DIAM. (TWO COMPLETE ROWS).  
RIVETS IN FRAMES TO FLOORS AT PLAT OF DOUBLE BOTTOM FORD HALF LENGTH FORD SPACED 5 1/2 DIAM. (TWO COMPLETE ROWS).  
RIVETS IN SIDE FRAMES TO SHELL SPACED 6 1/2 DIAM. APART 5 1/2 DIAM. APART IN WAY OF FORE & AFT PEAK  
TANKS AND DEEP FRAMING FORD.  
RIVETS IN BOTTOM FRAMES TO SHELL AFT HALF LENGTH FORD SPACED 7 DIAM. APART C/T O/C.  
RIVETS IN 3/4 BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 3 1/2 DIAM. APART C/T O/C.  
RIVETS IN 4/4 BUTTS OF OUTSIDE PLATING AND OF DECK STRINGER PLATES SPACED 4 DIAM. APART C/T O/C.  
RIVETS IN BEAMS OF SHELL PLATING AND AFT BOTTOM PLATING AS PER TABLE 40.  
RIVETS IN BUTTS OF DECK PLATING INNER BOTTOM MARGIN PLATING SPACED 4 DIAM. APART C/T O/C.  
RIVETS IN BEAMS & BUTTS OF BULKHEAD AND TUNNEL PLATING MARGIN ANGLES AND WEATHER DECK STRINGER  
ANGLES AND BULKHEAD FRAME TO BULKHEAD SPACED 4 1/2 DIAM. APART C/T O/C.  
RIVETS IN PLAT KEEL ANGLES, VERTICAL ANGLES CONNECTING FLOORS TO CENTRE GIDDER AND SHELL FLANGE  
OF WATERTIGHT BULKHEAD FRAME SPACED 5 DIAM. APART C/T O/C.  
RIVETS IN FRAMES TO FLOORS AND SIDE GIDDER IN BULKHEAD STIFFENERS (EXCEPT PEAK BULKHEAD) AND  
IN DECK PLATING TO BEAMS ON EVERY FRAME SPACED 7 DIAM. APART C/T O/C.  
RIVETS IN CENTRE GIDDER TOP ANGLES SPACED 7 DIAM. APART C/T O/C. NON-WATERTIGHT.  
RIVETS IN CENTRE GIDDER TOP ANGLES SPACED 5 DIAM. APART C/T O/C. WATERTIGHT.

THE SCANTLING OF ANGLES, BULB ANGLE AND CHANNEL  
SECTIONS GIVEN ON THIS PLAN ARE N.B.S. AND ARE IN ACCORDANCE  
WITH THE EMERGENCY PROGRAMME LIST

STEM 10' x 2 1/2" STEENPOST 10 1/2' x 8" KUDDER POST 6 1/2' x 8"

CENTRE GIDDER

43 1/4' x 64' FOR 1/2 LEN & 44' AT ENDS  
68' IN BOILER SPACE BUTTS LAPPED 3/4"  
VERTICAL ANGLES 3 1/2' x 3 1/2' x 43' SINGLE 4 x 4 x 1/2 B.S.  
6' x 6' x 1/2 SINGLE UNDER ENGINE SPACE & THRUST  
SEATING 2' x 6' x 1/2 UNDER BOILER BEAKERS

STIFFERS WELDED TO

TANK TOP

2' x 2' TO INTERCOSTAL GIDDER

DOUBLE UNDER ENGINES

2' x 2' TO INTERCOSTAL GIDDER

2' x 2' TO INTERCOSTAL GIDDER

2' x 2' TO INTERCOSTAL GIDDER

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2' x 2' TO INTERCOSTAL GIDDER

KEEL OUT.

52' x 78' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS  
1/2 RIVETS IN BUTTS OVER 72

"A" IN.

78' x 60' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

"B" OUT.

78' x 60' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

"C" CLINKER.

78' x 60' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

"D" IN.

78' x 60' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

"E" OUT.

81 1/2' x 60' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

"F" CLINKER.

76 1/2' x 60' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

"G" IN.

76 1/2' x 60' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

"H" OUT.

76 1/2' x 60' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

"J" IN.

76 1/2' x 60' FOR 1/2 LEN & 50' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

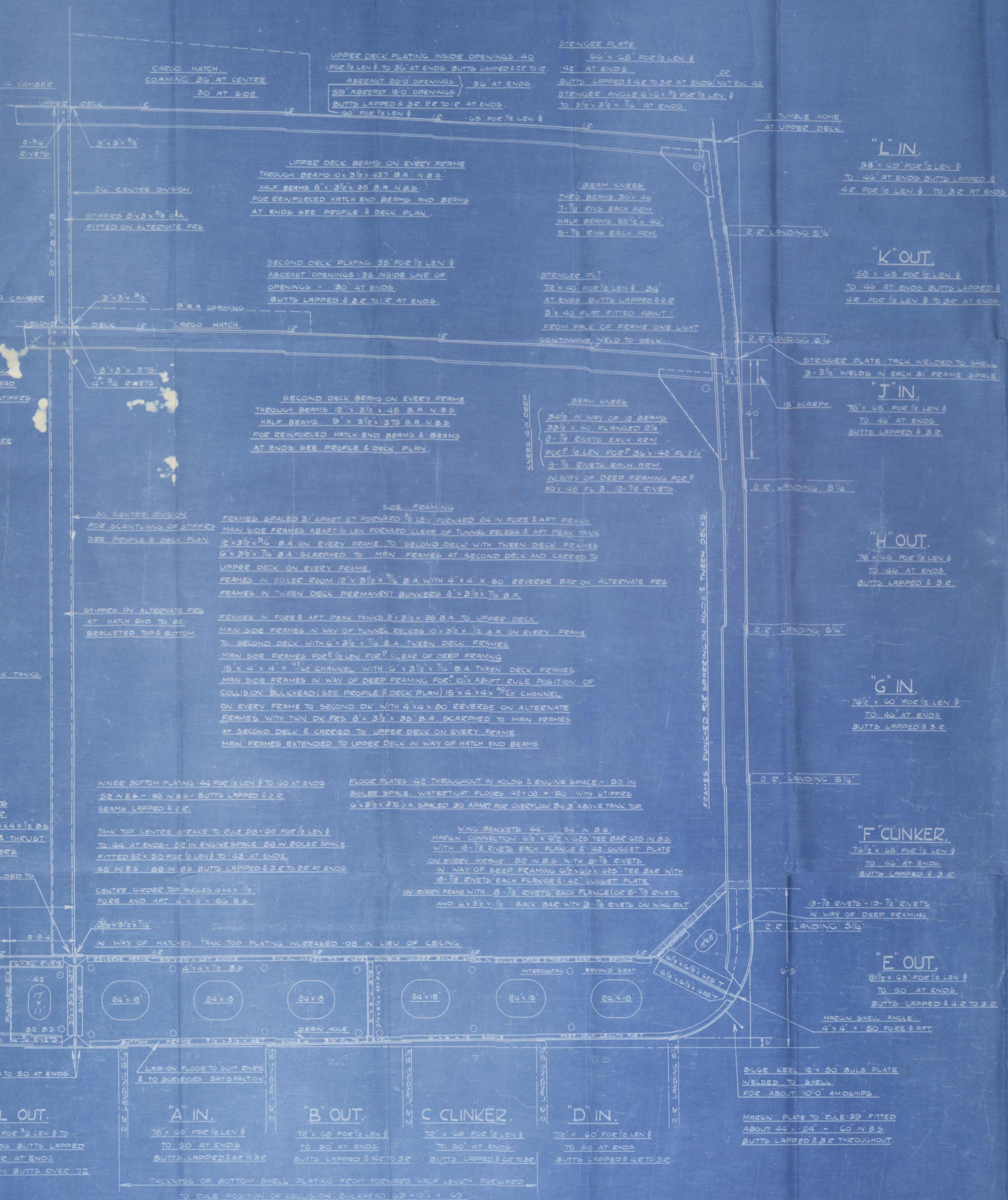
"K" OUT.

58' x 60' FOR 1/2 LEN & 44' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

"L" IN.

58' x 60' FOR 1/2 LEN & 44' AT ENDS BUTTS LAPPED 3/4" & 4/2 TO 3/4 AT ENDS

THE SCANTLING ARE SUITABLE FOR A DRAUGHT 18 IN  
EXCESS OF THAT CONTEMPLATED BY THE RULES FOR A COMPLETE  
SUPERSTRUCTURE HAVING A TONNAGE OPENING.



LITHGOW'S LTD

Y TYPE

FITTED ON NOS 957-9 ONLY.

BUILT  
WELDED  
STERN FRAME

LLOYD'S APP.

14.5.40

NO 957. n/n "Vicheo"  
EMPIRE RIDLEY <sup>ex</sup> \*

Greenock Report No. 21638

NO 959

EMPIRE HOWARD

Greenock Report No. 21645



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SECTION OF BOSS AT 7-12  
FORWARD OF AFT PERP  
LOOKING FORWARD

Also 969-70-1-2-78-9-80-1-2-90

Y1 + Y2 Type

(8)

LITHGOWS LTD Nos.

957/8/9/60/1/2/3/4/5.

DS. 284

RUDDER

n/n "ACHEO"

Yard No.      Name      First Entry Rpt. No.

|     |                  |       |
|-----|------------------|-------|
| 957 | "EMPIRE RIDLEY"  | 21638 |
| 958 | "EMPIRE BAFFIN"  | 21587 |
| 959 | "EMPIRE HOWARD"  | 21645 |
| 960 | "EMPIRE RANGER"  | 21746 |
| 961 | "EMPIRE ZEAL"    | 21769 |
| 962 | "EMPIRE SPARTAN" | 21797 |
| 963 | "EMPIRE CONRAD"  | 21846 |
| 964 | "EMPIRE PRAIRIE" | 21702 |
| 965 | "EMPIRE ADDISON" | 21770 |

Yard No.      Name      First Entry Rpt. No.

|     |                   |        |
|-----|-------------------|--------|
| 969 | "EMPIRE AUSTEN"   | 21837  |
| 970 | "EMPIRE GALAHAD"  | 21915  |
| 971 | "EMPIRE LANCER"   | 22086  |
| 972 | "EMPIRE PENNANT"  | 22115  |
| 973 | "COOLGORN"        | 22116  |
| 976 | "CAPE HOWE"       | 22190  |
| 977 | "EMPIRE TREASURE" | 22243  |
| 978 | "EMPIRE BEATRICE" | 22284  |
| 979 | "EMPIRE BUCKLER"  | 21969  |
| 980 | "EMPIRE PIBROCH"  | 22047  |
| 981 | "EMPIRE FALSTAFF" | 22342  |
| 982 | "EMPIRE SERVICE"  | 22374  |
| 990 | "EMPIRE FLORIZEL" | 22357. |



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S.S. №s 957-8-9-60-1-2-3-4 & 5.

NOTE:- KEYWAYS CUT SQUARE ENDED  
CORNERS NOT TO EXCEED  $\frac{1}{4}$ " RAD  
DEPTH OF KEYS MEASURED  
AT SIDES OF KEYWAY.

HEIGHT OF DECK ABOVE BASE LINE OF SHIP - 32'-7<sup>3</sup>/<sub>8</sub>"  
HEIGHT OF RUDDER STOCK ABOVE DECK - 3'-5<sup>3</sup>/<sub>4</sub>"  
TOTAL LENGTH OF RUDDER ABOVE BASE LINE - 36'-1<sup>1</sup>/<sub>8</sub>"  
HEIGHT TO BOTTOM OF RUDDER STOCK - 20'-6<sup>1</sup>/<sub>2</sub>"  
TOTAL LENGTH OF RUDDER STOCK - 15'-6<sup>5</sup>/<sub>8</sub>"

NOTE:- WHEN FLOATING RUDDER SLIGHT CLEARANCE TO BE LEFT BETWEEN BOTTOM OF BOTTOM PINTLE & BEARING DISC TO ENSURE THAT CARRIER IS BEARING ENTIRE WEIGHT OF RUDDER

DETAIL OF ALL RUDDER GUDGEONS & PINTLES  
(EXCEPT BOTTOM GUDGEON)  
SCALE: 1/4" FULL SIZE